

Amendments to the Claims:

If entered, this listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-12 (cancelled).

13 (previously presented). A ferroelectric material, comprising:

a perovskite alloy comprising stacked planes having the form $\text{Pb}(\text{Sc}^{3+}_{0.5+v}\text{Nb}^{5+}_{0.5-v})\text{O}_3$ / $\text{Pb}(\text{Sc}^{3+}_{0.5}\text{Nb}^{5+}_{0.5})\text{O}_3$ / $\text{Pb}(\text{Sc}^{3+}_{0.5-v}\text{Nb}^{5+}_{0.5+v})\text{O}_3$ / $\text{Pb}(\text{Sc}^{3+}_{0.5}\text{Nb}^{5+}_{0.5})\text{O}_3$, wherein Pb represents lead atoms, Sc^{3+} represents scandium atoms, Nb^{3+} represents niobium atoms and O represents oxygen atoms, and wherein v is a modulated parameter yielding the relative concentration of the Sc^{3+} and Nb^{3+} atoms in each plane of said alloy, wherein said alloy is ordered along the [001] direction and wherein said modulated parameter v is selected to obtain at a specific temperature dielectric and piezoelectric properties of said alloy that are enhanced over the dielectric and piezoelectric properties of the disordered alloy; and

wherein said specific temperature is selected from any temperature below the Curie temperature of the disordered alloy and above 50K.